

**ABSTRACT**

A device for filtering fluids conveyed at high pressure is provided with an inlet opening, an outlet opening and a metal housing that encloses a filter chamber and has a service opening which is closed by a metal lid, which is seated by a contact force on a rim portion surrounding the service opening in direct contact with the metal housing. A rim surface of the rim portion that is associated with the lid slopes between an inner boundary edge associated with the service opening and an outer boundary edge such that the rim surface forms an angle deviating from  $90^\circ$  with adjacent inside and outside surfaces of the rim portion. A contact surface between the lid and the rim portion is limited to a fraction of the rim surface, and a filter element is arranged inside the filter chamber.